

Notice of Allowability

Application No.

09/749,389

Applicant(s)

HO ET AL.

Examiner

Nelson D. Hernandez

Art Unit

2612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/28/2000.
2. ☒ The allowed claim(s) is/are 1-8.
3. ☒ The drawings filed on 28 December 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 03/02/2001
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-8 are allowed.
2. The following is a statement of reasons for the indication of allowable subject matter: the prior art of records, neither anticipates nor renders obvious the following limitations as claimed:

Regarding claim 1, prior arts fail to anticipate or suggest color separation beam splitter being characterized in that the three optical interference filters include a yellow color reflective dichroic mirror which reflects pure yellow light and passes red light, blue light and green light; a red color reflective dichroic mirror which reflects pure red light and passes green light and blue light; and a blue color reflective dichroic mirror which reflects pure blue light and passes pure green light, so that when a white light is incident to the color separation beam splitter, a yellow light is first reflected by the yellow color reflective dichroic mirror, a red light is then reflected by the red color reflective dichroic mirror, and then a blue light and a green light are split by the blue color reflective dichroic mirror.

Peterson, US Patent 6,053,615 discloses a color separation beam splitter (Fig. 1, items 56) for an image projector wherein the yellow color is separated by using clean-up filters with the purpose of avoid projecting images with excess of yellow color, resulting in the projected image having an undesirable green or orange tint (Col. 5, lines 29-51; col. 3, lines 15-19); however, Peterson fails to anticipate or suggest that the color separation splitter comprises a plurality of prisms connected with each other and that the optical interference filters having

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different wavelength are formed on side surfaces of the plurality of prisms.

Peterson also fails to anticipate or suggest that when a white light is incident to the color separation beam splitter, a yellow light is first reflected by the yellow color reflective dichroic mirror, a red light is then reflected by the red color reflective dichroic mirror, and then a blue light and a green light are split by the blue color reflective dichroic mirror.

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nelson D. Hernandez whose telephone number is (703) 305-8717. The examiner can normally be reached on 8:30 A.M. to 6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy R. Garber can be reached on (703) 305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nelson D. Hernandez
Examiner
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NDHH
September 17, 2004



NGOC-YEN VU
PRIMARY EXAMINER